



National Science Foundation
Rotational Vacancy

DIRECTORATE FOR ENGINEERING
DIVISION OF DESIGN, MANUFACTURE, AND INDUSTRIAL INNOVATION
ARLINGTON, VA 22230

ANNOUNCEMENT NO: E20050141-Rotators

OPEN: 9/26/05

CLOSE: 10/26/05

POSITIONS WILL BE FILLED ON A ONE OR TWO YEAR VISITING SCIENTIST APPOINTMENT, INTERGOVERNMENTAL PERSONNEL ACT (IPA) ASSIGNMENT BASIS, OR FEDERAL TEMPORARY APPOINTMENT.

The National Science Foundation is seeking candidates for three positions as SBIR/STTR Program Managers in the Office of Industrial Innovation (OII), Directorate for Engineering, Arlington, VA. One position is in Advanced Materials and Manufacturing (AM) and two positions are in Biotechnology (BT).

The Office of Industrial Innovation (OII) is responsible for supporting small business research that seeks to accelerate the industrial innovation based on fundamental academic scientific and engineering discovery and innovation. The OII is responsible for the implementation of the Small Business Innovation Research and Development Act (SBIDA) of 1982, Public Law 97-219 and its subsequent reauthorizations at the National Science Foundation (NSF). The OII operates two legislated programs for the small business community; Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR). The OII invests in cutting-edge, high risk, high quality applied research in science, engineering and education in the SBIR/STTR program with a clear goal of innovation that benefits society and the nation through commercialization. The OII periodically issues SBIR/STTR solicitations with research topics selected from a broad spectrum of technologies. More information about the Office of Industrial Innovation can be found on their website at <http://www.nsf.gov/eng/sbir>

The **Biotechnology (BT)** topic addresses the opportunities for small businesses to transform discoveries in the rapidly advancing frontiers in the biosciences to the commercialization of new products, devices, processes, or services through Biotechnology innovation research. BT covers a broad field including Genomics, Proteomics, Bioinformatics, Biochips, Biosensors, Biomedical Devices, Environmental Bio, Ag-Bio, Marine Bio, Bioprocessing, Biomaterials, Nano-Bio, Tissue Engineering, Metabolic Engineering and other related research areas excluding research involving the testing of pharmaceuticals in human clinical trials or animal models.

Qualifications required: Applicants must have a Ph.D., or equivalent experience, in biology, biosciences, bioengineering, biochemical, biomedical engineering or a closely related field, and six years of successful research experience, research administration, and/or managerial experience in research, design and development of biotechnology products, devices, processes or services. Specific experience in the commercialization of innovative biotechnology products or services, preferably in a small business setting, is sought.

The **Advanced Materials and Manufacturing (AM)** topic addresses development of new materials and manufacturing that introduce new approaches to advance the competitive nature and state of the art for U.S. industry. AM covers both materials and manufacturing technologies including high temperature materials, structural materials, engineered materials, coatings, composites, polymer processing, powder processing, machining, casting, joining, additive manufacturing and other related research areas.

Qualifications required: Applicants must have a Ph.D., or equivalent experience, in materials science, mechanical, chemical or industrial engineering or a closely related field, and six years of successful research experience, research administration, and/or managerial experience in new materials, advanced manufacturing, new product design, development and engineering, as well as in new business development.

These positions will be filled on a one or two year Visiting Scientist Appointment, under the terms of the Intergovernmental Personnel Act (IPA) or as a Federal Temporary Appointment. Temporary and Visiting Scientist appointments will be made under the Excepted Authority of the NSF Act with a current salary range of \$88,369 to \$137,713, depending on qualifications and experience. For Visiting Scientist appointments, individuals are in a non-pay leave status from the home institution and are appointed to NSF's payroll as a Federal employee. NSF withholds FICA and provides reimbursement for fringe benefits. For Federal temporary appointments of more than one year, the usual civil service benefits (retirement, health and life insurance) are applicable. For IPA assignments, the individual remains an employee on the payroll of his or her home institution and the institution continues to administer pay and benefits. NSF reimburses the institution for NSF's negotiated share of the costs. Individuals eligible for an IPA assignment include employees of State and local government agencies, institutions of higher education, Indian tribal governments, federally funded research and development centers and qualified nonprofit organizations. For more information regarding Visiting Scientist appointments or IPA assignments, visit our website at http://www.nsf.gov/about/career_opps/.

DUTIES AND RESPONSIBILITIES: As Program Manager, plan and administer the relevant program within the framework of legislation, agency policies, missions, objectives and resources and serves as spokesperson of the program and with the scientific, engineering, and business community. Implement the proposal review and evaluation process for the relevant program (e.g., review of proposals; selection of reviewers; management of program; and allocation of budget). Implement new or revised policies, and develops technical, fiscal, and administrative approaches to improve the activities and management of the program. Manages and monitors grants and interagency agreements to ensure fulfillment of commitments to/and by NSF. Work with program staff NSF-wide especially within the Directorate for Engineering, the Directorate of Biological Sciences, the Directorate of Computer Information Science and Engineering, the Directorate for Mathematical and Physical Sciences and the Directorate for GeoSciences to apprise them to the requirements of SBIR and sensitize them to the requirements of the small business community. Design, develop, manage, coordinate, and implement small business solicitations, conferences, publications, reports and research and study projects. Develop and present clear and concise explanations and interpretations of NSF policies and research program initiatives for small businesses, the academic community, large industrial firms, the investment community, state and local governments, and other federal agencies. Serve as the NSF's representative on permanent or ad hoc committees.

HOW TO APPLY: Applications may be transmitted electronically to rotator@nsf.gov. Individuals may also submit a resume or any application of your choice to the National Science Foundation, Division of Human Resource Management, 4201 Wilson Blvd., Arlington, VA 22230, Attn: E20050141-Rotators. In addition, you are encouraged to submit a narrative statement that addresses your background and/or experience related to the Program you are applying for. You are asked to complete and submit the attached Applicant Survey form. Submission of this form is voluntary and will not affect your application for employment (the information is used for statistical purposes). Telephone inquiries may be referred to the Executive and Visiting Personnel Branch, at (703) 292-8755. For technical information, contact Dr. Kesh S. Narayanan, Division Director, at (703) 292-7076 or knarayan@nsf.gov. Hearing impaired individuals may call TDD (703) 292-8044.

The National Science Foundation provides reasonable accommodations to applicants with disabilities on a case-by-case basis. If you need a reasonable accommodation for any part of the application and hiring process, please notify the point of contact listed on this vacancy announcement.

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HIGHLY QUALIFIED STAFF THAT REFLECTS THE DIVERSITY OF OUR NATION**

NATIONAL SCIENCE FOUNDATION
APPLICANT SURVEY

OMB No. 3145-0096
Expiration: 7/31/2005

Vacancy Ann. #: _____ Position Status (temporary/permanent): _____

Position Title/Series/Grade: _____

INSTRUCTIONS

Your completion of this form will be appreciated. Submission of this Information is voluntary and it will have no effect on the processing of your application. The data collected will be used only for statistical purposes to ensure that agency personnel practices meet the requirements of Federal law. Pursuant to 5 CFR 1320.5(b), an agency may not conduct or sponsor, and a person is not required to respond to an information collection unless it displays a valid OMB control number. The OMB control number for this collection is 3145-0096. NSF estimates that each respondent should take about 3 minutes to complete this survey, including time to read the instructions. You may have comments regarding this burden estimate or any other aspect of this survey, including suggestions for reducing this burden. If so, please send them to NSF Reports Clearance Officer, Division of Administrative Services, NSF, 4201 Wilson Blvd., Arlington, VA. 22230.

PRIVACY ACT INFORMATION

GENERAL - This information is provided pursuant to Public Law 93-579 (Privacy Act of 1974), December 31, 1974, for individuals completing Federal records and forms that solicit personal information.

AUTHORITY - Section 7201 of title 5 of the U.S. Code and Section 2000e-16 of title 42 of the U.S. Code.

PURPOSE AND ROUTINE USES

The information is used for research and for a Federal Equal Opportunity Recruitment Program (FEORP) to help insure that agency personnel practices meet the requirements of Federal law. Address questions concerning this form and its uses to the Privacy Act Officer, National Science Foundation, Arlington, VA 22230.

1. Today's Date: _____ 2. Year of Birth: _____

3. How did you learn about the particular position for which you are applying? (Circle appropriate number.)

- | | |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 01 - Newspaper (specify) _____ | 10 - Federal, State or local job information center |
| 02 - Contact with NSF Personnel Office
(Agency Bulletin Board or other Announcement) | 11 - State vocational rehabilitation agency or
Veterans Administration |
| 03 - NSF-initiated personal contact | 12 - State employment office |
| 04 - Science Magazine, or other professional journal or magazine
(specify) _____ | 13 - School or college counselor or other official |
| 05 - Affirmative Action Register | 14 - Private job Information service |
| 06 - Attendance at conference, meeting or job fair
(specify) _____ | 15 - Private employment service |
| 07 - NSF recruitment at school or college | 16 - Friend or relative working at NSF |
| 08 - Colleague referral | 17 - Friend or relative not working at NSF |
| 09 - NSF Bulletin | 18 - NSF website |
| | 19 - Internet or other website |
| | 20 - Other (specify) _____ |

4. Select the ethnic category with which you most closely identify:

- A. **Hispanic or Latino.** A person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race.
- B. **Not Hispanic or Latino.**

5. Select one or more racial category with which you most closely identify:

- A. **American Indian or Alaska Native.** A person having origins in any of the original peoples of North and South America (including Central America), and who maintains tribal affiliation or community attachment.
- B. **Asian.** A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.
- C. **Black or African American.** A person having origins in any of the black racial groups of Africa.
- D. **Native Hawaiian or Other Pacific Islander.** A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands.
- E. **White.** A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.

6. Sex (Circle the appropriate letter.) F - Female M - Male

7. Please provide Information on your disability status by circling the appropriate category below:

1. I do not have a disability; 2. Hearing impairment; 3. Vision impairment; 4. Missing extremities; 5. Partial paralysis;
6. Complete paralysis; 7. Convulsive disorder; 8. Mental retardation; 9. Mental or emotional illness; 10. Severe distortion of limbs
and/or spine; 11. I have a disability but it is not listed.

FOR AGENCY USE

Agency Code: _____

AN EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER